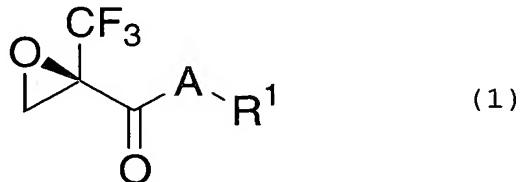


ABSTRACT OF THE DISCLOSURE

An optically active fluorine-containing compound represented by the following formula (1):



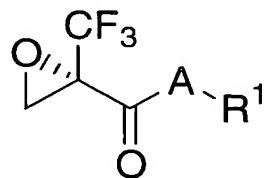
5 wherein A is an oxygen atom, a sulfur atom or an NH group, and R¹ is a methyl group, an ethyl group, a C₃₋₁₀ linear, branched or cyclic alkyl group, a C₆₋₂₀ aromatic group, a C₆₋₂₀ aromatic group having hydrogen on the aromatic ring optionally substituted by a halogen atom, a C₆₋₂₀ aromatic group having hydrogen on the aromatic ring optionally substituted by a methyl group, a C₆₋₂₀ aromatic group having hydrogen on the aromatic ring optionally substituted by an ethyl group, a C₆₋₂₀ aromatic group having hydrogen on the aromatic ring optionally substituted by a C₃₋₆ linear, branched or cyclic alkyl group, a C₆₋₂₀ aromatic group having hydrogen on the aromatic ring optionally substituted by a methoxy group, a C₆₋₂₀ aromatic group having hydrogen on the aromatic ring optionally substituted by an ethoxy group, a C₆₋₂₀ aromatic group having hydrogen on the aromatic ring optionally substituted by a C₃₋₆ linear, branched or cyclic alkyloxy group, a C₅₋₁₉ heteroaromatic group, a C₅₋₁₉ heteroaromatic group having hydrogen on the aromatic ring optionally substituted by a halogen atom, a C₅₋₁₉

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heteroaromatic group having hydrogen on the aromatic ring
optionally substituted by a methyl group, a C₅₋₁₉
heteroaromatic group having hydrogen on the aromatic ring
optionally substituted by an ethyl group, a C₅₋₁₉
5 heteroaromatic group having hydrogen on the aromatic ring
optionally substituted by a C₃₋₆ linear, branched or
cyclic alkyl group, a C₅₋₁₉ heteroaromatic group having
hydrogen on the aromatic ring optionally substituted by a
methoxy group, a C₅₋₁₉ heteroaromatic group having
10 hydrogen on the aromatic ring optionally substituted by
an ethoxy group, a C₅₋₁₉ heteroaromatic group having
hydrogen on the aromatic ring optionally substituted by a
C₃₋₆ linear, branched or cyclic alkyloxy group, a benzyl
group, a benzyl group having hydrogen on the aromatic
15 ring optionally substituted by a halogen atom, a benzyl
group having hydrogen on the aromatic ring optionally
substituted by a methyl group, a benzyl group having
hydrogen on the aromatic ring optionally substituted by
an ethyl group, a benzyl group having hydrogen on the
20 aromatic ring optionally substituted by a C₃₋₆ linear,
branched or cyclic alkyl group, a 2-phenylethyl group, or
a C₃₋₁₀ linear, branched or cyclic alkyl group having a
C₆₋₂₀ aromatic group bonded thereto, or by the following
formula (2):



(2)

wherein A and R¹ are as defined above.